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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE Jeffery A. Whiteford 40-002710US 9092 10/656,910 09/04/2003 EXAMINER 22798 09/22/2004 VIJAYAKUMAR, KALLAMBELLA M QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C. P O BOX 458 PAPER NUMBER ART UNIT ALAMEDA, CA 94501 1751

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/656,910	WHITEFORD ET A	۱L.
	Office Action Summary	Examiner	Art Unit	
		Kallambella Vijayakumar	1751	
Period 1	The MAILING DATE of this communication a for Reply	ppears on the cover sheet with the	correspondence add	Iress
THE - Extraction - If th - If N - Fail	HORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR in FSIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a recomplete of the property is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b).	J. 1.136(a). In no event, however, may a reply be lir eply within the statutory minimum of thirty (30) day and will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. The mailing date of this con	nmunication.
Status				
1) 🛛	Responsive to communication(s) filed on 08/	/31/2004		
2a)		nis action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposit	tion of Claims			
· _	Claim(s) 1-106 is/are pending in the applicati	ion		
7)23	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)□	5) Claim(s) is/are allowed.			
6)□	6) Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)🖂	_			
Applicat	tion Papers	·		
	-	201		
 9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. 				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
		- Administration the attached Office	: Action of folin FTC	J-102.
-	under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
	3. Copies of the certified copies of the pri-			stage
	application from the International Burea			-3-
* (See the attached detailed Office action for a lis	st of the certified copies not receive	ed.	
				Œ.
Attachmen		_		
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da	(PTO-413)	
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08		ate 'atent Application (PTO-1	152)
	er No(s)/Mail Date	6) Other: .	•	

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-58, drawn to 'a conductive composition', classified in class 252, subclass 510.
- II. Claims 59-66, drawn to 'a polymeric conductive composition', classified in class252, subclass 511.
- III. Claims 67-71, drawn to 'a nanostructure containing matrix', classified in class252, subclass 510.
- IV. Claims 72-76, drawn to 'a nanostructure containing matrix', classified in class252, subclass 511.
- V. Claims 77-98, drawn to 'method of synthesizing', classified in class 264, subclass297.1.
- VI. Claims 99-102, drawn to 'a method of modifying', classified in class 252, subclass 511.
- VII. Claims 103-106, drawn to 'a device', classified in class 438, subclass 7.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process could be used to make a conductive polymer.

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Inventions I and either IV or VII are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a conductive polymer coating and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Inventions I and II, III, IV, VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions of Group-I relates to a conductive composition that could be used as dispersion. Group-III pertains to a polymeric conductive composition that could find use as an electrolyte. Group-III pertains to nanostructure matrix that could be used as a semiconductor. Group-IV pertains to a nanostructure matrix that is not related to Group-III, and could function as an analytical probe. Group-VI related to a method of modifying the interact5ion between nanostructure and matrix that could be used to modify the luminescent properties of a material.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, III, IV, V, VI or VII and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Claims 1-36 generic to a plurality of disclosed patentably distinct species comprising:

Species-I: Claims 37-38

Species-II: Claims 39-40

Species III: Claims 41-42

Species V: Claims 43-44

Species VI: Claims 45-46

Species VII: Claims 47-48

Species VIII: Claims 49-50

Species IX: Claims 51-52

Species X: Claims 53-54

Species XI: Claims 55-56

Species XII: Claims 57-58

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

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examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kallambella Vijayakumar whose telephone number is 571-272-

1324. The examiner can normally be reached on M-Th, 07.00 - 16.30 hrs, Alt. Fri: 07.00-15.30

hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dr. Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KMV

September 14, 2004.

YOGENDRA N. GUPTA

SUPERVISORY PATENT EXAMINER

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